

Amendment Under 37 C.F.R. § 1.111
Serial No. 10/077,930
Sughrue Ref: Q68634

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A jetting apparatus for mixing at least liquid and gas to create the mixed flow of the gas and the liquid to thereby jet the mixed flow, said jetting apparatus comprising:

a passage of the mixed flow of the gas and the liquid, said passage including at least one partition and a plurality of sub-passages divided by said partition; ~~and~~

an inclined face connected to said passage;

a liquid supply portion provided adjacent to said inclined face, said liquid supply portion having liquid injection ports being provided in correspondence with said divided sub-passages and a tapered portion located inside said inclined face; and

a gas passage defined between said tapered portion and said inclined face for supplying the gas to said passage, of which a sectional area is reduced toward the passage;

wherein mass flow per sectional area of the mixed flow of the gas and the liquid passing through said respective sub-passages is substantially equal.

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2. (original): A jetting apparatus according to claim 1, wherein each of said divided sub-passages is gradually increased in a downstream direction in width in a direction in which said sub-passages are arranged.

3. (withdrawn): A jetting apparatus according to claim 1, wherein each of said divided sub-passages is gradually increased in a downstream direction in width in a direction perpendicular to a direction in which said sub-passages are arranged.

4. (currently amended): A jetting apparatus according to claim 1, wherein a downstream terminal end of said at least one partition ~~partitions are~~ is located at an intermediate position in said passage of said mixed flow of the gas and the liquid.

5. (currently amended): A jetting apparatus according to claim 1, wherein said upstream end of said at least one partition ~~ends of said partitions are~~ located at an appropriate distance from said liquid injection ports.

6. (currently amended): A jetting apparatus according to claim 1, ~~further comprising a gas passage for supplying the gas to said passage,~~ wherein a sectional area of said gas passage is gradually decreased toward a supply port ~~thereof~~ for supplying gas the passage.

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7. (original): A jetting apparatus according to claim 1, wherein said passage of the mixed flow of the gas and the liquid is provided with a minimum throttle portion which has the smallest sectional area, and sectional area of said passage in the downstream part thereof is made equal to that of said minimum throttle portion or gradually increased.

Please add the following new claim:

8. (new): The jetting apparatus according to claim 1, wherein said partition includes a wall portion extending in a flow direction of said sub-passages.